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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 12/24/2008

FILING DATE

Buchanan Ingersoll Burns Doane Swecker & Mathis P O Box 1404 Alexandria, VA 22313-I404

APPLICATION NO.

EXAMINER SHEVIN, MARK I.

PAPER NUMBER ARTHNIT

CONFIRMATION NO.

1703

DATE MAILED: 12/24/2008

ATTORNEY DOCKET NO.

FIRST NAMED INVENTOR 8979 10/564.477 01/13/2006 Seppo Heimala 1034281-000003 TITLE OF INVENTION: METHOD FOR PRODUCING CONCENTRATES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/24/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This f appropriate. All further c indicated unless corrected maintenance fee notificati	form should be used f orrespondence includin d below or directed oth ons.	or tran g the erwise	smitting the ISSU Patent, advance or in Block 1, by (a					hould be completed where correspondence address as trate "FEE ADDRESS" for
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Buchanan Inger Burns Doane Swe P O Box 1404	ecker & Mathis	/2008		I Si ac tri	haraby cartify that the	rie Good	e of Mailing or Trans (s) Transmittal is being fficient postage for fir ISSUE FEE address (1) 273-2885, on the d	mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
Alexandria, VA 2	22313-1404							(Depositor's name)
								(Signature)
				L				(Date)
APPLICATION NO.	APPLICATION NO. FILING DATE			FIRST NAMED INVENTO)R	ATTC	CONFIRMATION NO.	
10/564,477	01/13/2006			Seppo Heimala		1034281-000003		8979
TITLE OF INVENTION:								
APPLN. TYPE	SMALL ENTITY	IS	SUE FEE DUE	PUBLICATION FEE DU		E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1510	\$300	\$0		\$1810	03/24/2009
EXAMI	NER		ART UNIT	CLASS-SUBCLASS				
SHEVIN, M	MARK L		1793	075-743000				
"Fee Address" indic PTO/SB/47; Rev 03-02 Number is required. 3. ASSIGNEE NAME AN PLEASE NOTE: Unle recordation as set forth	ndence address (or Cha 7122) attached. cation (or "Fee Address" c or more recent) attach TO RESIDENCE DATA sss an assignce is identi in 37 CFR 3.11. Comp	nge of 'Indica ed. Use	Correspondence ation form of a Customer E PRINTED ON	data will appear on the I a substitute for filing a	to 3 registered pater tively, gle firm (having as a r agent) and the nan torneys or agents. If we printed. type) patent. If an assign assignment.	a memb nes of u no nan	per a 2pto ne is 3dentified below, the d	ocument has been filed for
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4a. The following fee(s) are submitted: Itsue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies				D. Payment of Fee(s): (PI A check is enclosed Payment by credit of The Director is here overpayment, to De	l. ard. Form PTO-203	3 is atta	ached. required fee(s), any de	
	SMALL ENTITY statu	s. See	37 CFR 1.27.	☐ b. Applicant is no le				
NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if requeeords of the United Sta	iired) v tes Pat	will not be accepted ent and Trademark	d from anyone other that Office.	the applicant; a reg	istered	attorney or agent; or th	ne assignee or other party in
Authorized Signature _					Date			
Typed or printed name				Registration No.				
This collection of informa an application. Confidenti submitting the completed this form and/or suggestio Box 1450, Alexandria, Vir Alexandria, Virginia 2231	tion is required by 37 C ality is governed by 35 application form to the ons for reducing this bur rginia 22313-1450. DC 3-1450.	FR 1.3 U.S.C. USPT den, sl NOT	11. The informatic 122 and 37 CFR O. Time will vary nould be sent to the SEND FEES OR (on is required to obtain on 1.14. This collection is depending upon the incommendation off COMPLETED FORMS	r retain a benefit by estimated to take 12 lividual case. Any co icer, U.S. Patent and TO THIS ADDRES	the pub minute ommen Trader S. SEN	lic which is to file (and s to complete, including ts on the amount of times mark Office, U.S. Dep D TO: Commissioner	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/564,477	01/13/2006	Seppo Heimala	1034281-000003	8979
75	590 12/24/2008	EXAMINER		
Buchanan Ingers	oll	SHEVIN, MARK L		
Burns Doane Swee	ker & Mathis	ART UNIT	PAPER NUMBER	
P O Box 1404		1793		
Alexandria, VA 22	2313-1404	DATE MARKED TO 12/24/200	10	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 380 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 380 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

Application No. Applicant(s) 10/564 477 HEIMALA ET AL. Notice of Allowability Examiner Art Unit Mark I Shevin 1793 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to claims and remarks filed 11/21/2008. The allowed claim(s) is/are 14-16 and 18-30. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) 🔯 All 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. X Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other

/Mark L. Shevin/

Supervisory Patent Examiner, Art Unit 1793

/Roy King/

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Art Unit: 1793

DETAILED ACTION

Status of Claims

 Claims 14-16 and 18-30, filed after final rejection on November 21st, 2008, are currently under examination. Compared to the claims filed June 24th, 2008 and examined in the previous Office Action mailed September 26th, 2008:

Amended: Claims 14-16, 18, 23-25, and 29

Cancelled: Claims 1-13 and 17

Status of Previous Objections

The objections to claims 14-30 have been <u>withdrawn</u> in view of Applicants' amendments to claim 14.

Status of Previous Rejections

The previous rejections of claims 14-30 under 35 U.S.C. 112 (second paragraph)
have been withdrawn in view of Applicants' amendments to claim 14.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

- 4. The previous rejections to claims 14, 17-19, and 23-25 under 35 U.S.C. 103(a) over Baczek (US 4,256,553) have been withdrawn in view of Applicants' remarks filed November 21st, 2008 and the amendments to claim 14.
- 5. The previous rejections to claims 15 and 30 under 35 U.S.C. 103(a) over Baczek in view of Gabb (US 5,616,168) have been withdrawn in view of Applicants' remarks filed November 21st, 2008 and the amendments to claim 14 and 15.

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6. The previous rejection to claim 16 under 35 U.S.C. 103(a) over Baczek in view of Fisher (US 3,827,557) has been withdrawn in view of Applicants' remarks filed November 21st 2008 and the amendments to claim 14 and 16.

- 7. The previous rejection to claim 20 under 35 U.S.C. 103(a) over Baczek in view of Richmond (US 6,537,440) has been withdrawn in view of Applicants' remarks filed November 21st, 2008 and the amendments to claim 14.
- 8. The previous rejections to claims 21 and 22 under 35 U.S.C. 103(a) over Baczek in view of Johnson (US 3,957,602) have been <u>withdrawn</u> in view of Applicants' remarks filed November 21st. 2008 and the amendments to claim 14.
- 9. The previous rejections to claims 26-29 under 35 U.S.C. 103(a) over **Baczek** in view of **Heimala** (US 5,108,495) have been <u>withdrawn</u> in view of Applicants' remarks filed November 21st, 2008 and the amendments to claim 14 and 29.

Allowable Subject Matter

Claims 14-16 and 18-30, are allowed.

Reasons for Allowance

11. The following is an examiner's statement of reasons for allowance:

The closest prior art, Baczek, does remove iron by neutralization but by crystallization as additional acid is added (col. 8, lines 35-36 and Applicants' remarks, p. 8, para 2) nor does the separator 50 perform a "concentrating" step in that no copper sulfide is conducted via line 63 because only liquor containing dissolved ferrous iron is conveyed via line 63 (p. 9 of Applicants' remarks). In addition, Baczek does not teach "returning at least a portion of the converted solution from the first conversion step to

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the leaching of the second concentrate" as lines **78** and **80** of Figure 1 only contain bleed electrolyte and tailings from copper electrolysis **72** and separation step **58** and one would not have a reasonable expectation of success in recycling conversion effluent back to the leaching step (p. 11 and p. 12, para 1 of Applicants remarks)

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark L. Shevin whose telephone number is (571) 270-3588 and fax number is (571) 270-4588. The examiner can normally be reached on Monday - Friday, 8:30 AM - 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy M. King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

/Mark L. Shevin/ Examiner, Art Unit 1793 /Roy King/ Supervisory Patent Examiner, Art Unit 1793

> December 16th, 2008 10-564,477